

32692

Customer Number

Patent  
Case No.: 54913US117

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: CROOKS, STEPHEN L.

Application No.: 10/780379

Group Art Unit: Unknown

Filed: February 17, 2004

Examiner: Unknown

Title: UREA SUBSTITUTED IMIDAZOQUINOLINES

DUE DATE(S) \_\_\_\_\_

ATTORNEY DAE  
DOCKETED *js*INFORMATION DISCLOSURE STATEMENTCommissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

## CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

May 28, 2004  
DateAmber M. Haubrick  
Signed by: Amber M. Haubrick

Dear Sir:

Pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, enclosed is a completed Form PTO-1449, citing references submitted for consideration by the Examiner. Copies of any cited foreign patents, non-patent literature, and unpublished US application documents are enclosed. Pursuant to the waiver in the Pre-OG Notice, dated July 11, 2003, copies of US patents and published US patent applications are no longer required and are not enclosed. It is respectfully requested that the Examiner initial and return the enclosed Form PTO-1449 to indicate that each reference has been considered.

It is believed that no fee is due; however, in the event a fee is required, please charge the fee to Deposit Account No. 13-3723.

Respectfully submitted,

27 MAY 2004  
Date

By:

Dean A. Ersfeld  
Dean A. Ersfeld, Reg. No.: 46,689  
Telephone No.: (651) 733-7830Office of Intellectual Property Counsel  
3M Innovative Properties Company  
Facsimile No.: 651-736-3833

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Page 1 of 4

Application Number

10/780379

Filing Date

February 17, 2004

First Named Inventor

Stephen L. Crooks

Art Unit

Examiner Name

Unknown

Attorney Case Number

54913US117

**U.S. Patent Documents**

Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
	A1	US- 3,314,941	04-18-1967	Littell et al.	
	A2	US- 4,689,338	08-25-1987	John F. Gerster	
	A3	US- 4,698,348	10-06-1987	John F. Gerster	
	A4	US- 4,929,624	05-29-1990	Gerster et al.	
	A5	US- 4,988,815	01-29-1991	Andre et al.	
	A6	US- 5,037,986	08-06-1991	John F. Gerster	
	A7	US- 5,175,296	12-29-1992	Gerster	
	A8	US- 5,238,944	08-24-1993	Wick et al.	
	A9	US- 5,266,575	11-30-1993	John F. Gerster	
	A10	US- 5,268,376	12-07-1993	John F. Gerster	
	A11	US- 5,346,905	09-13-1994	John F. Gerster	
	A12	US- 5,352,784	10-04-1994	Nikolaides et al.	
	A13	US- 5,367,076	11-22-1994	Gerster	
	A14	US- 5,389,640	02-14-1995	Gerster et al.	
	A15	US- 5,395,937	03-07-1995	Nikolaides et al.	
	A16	US- 5,446,153	08-29-1995	Lindstrom et al.	
	A17	US- 5,482,936	01-09-1996	Kyle J. Lindstrom	
	A18	US- 5,693,811	12-02-1997	Lindstrom	
	A19	US- 5,741,908	04-21-1998	Gerster et al.	
	A20	US- 5,756,747	05-26-1998	Gerster et al.	
	A21	US- 5,939,090	08-17-1999	Beaurline et al.	
	A22	US- 6,039,969	03-21-2000	Tomai et al.	
	A23	US- 6,069,149	05-30-2000	Nanba et al.	
	A24	US- 6,083,505	07-04-2000	Miller et al.	
	A25	US- 6,110,929	08-29-2000	Gerster et al.	
	A26	US- 6,194,425	02-27-2001	Gerster et al.	
	A27	US- 6,245,776	06-12-2002	Skwierczynski et al.	
	A28	US- 6,331,539	12-18-2001	Crooks et al.	

\*Examiner:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A/PTO (modified)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Page 2 of 4	<b>Application Number</b>	10/780379
	<b>Filing Date</b>	February 17, 2004
	<b>First Named Inventor</b>	Stephen L. Crooks
	<b>Art Unit</b>	
	<b>Examiner Name</b>	Unknown
	<b>Attorney Case Number</b>	54913US117

U.S. Patent Documents					
Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
	A29	US- 6,376,669	04-23-2002	Rice et al.	
	A30	US- 2002/0055517 A1	05-09-2002	Smith	
	A31	US- 2002/0058674 A1	05-16-2002	Hedenstrom et al.	
	A32	US- 6,451,810	09-17-2002	Coleman et al.	
	A33	US- 6,518,265	02-11-2003	Kato et al.	
	A34	US- 6,525,064	02-25-2003	Dellaria et al.	
	A35	US- 6,541,485	04-01-2003	Crooks et al.	
	A36	US- 6,545,016	04-08-2003	Dellaria et al.	
	A37	US- 6,545,017	04-08-2003	Dellaria et al.	
	A38	US- 6,558,951	05-06-2003	Tomai et al.	
	A39	US- 6,573,273	06-03-2003	Crooks et al.	
	A40	US- 6,656,938	12-02-2003	Crooks et al.	
	A41	US- 6,660,735	12-09-2003	Crooks et al.	
	A42	US- 6,660,747	12-09-2003	Crooks et al.	
	A43	US- 6,664,260	12-16-2003	Charles et al.	
	A44	US- 6,664,264	12-16-2003	Dellaria et al.	
	A45	US- 6,664,265	12-16-2003	Crooks et al.	
	A46	US- 6,667,312	12-23-2003	Bonk et al.	
	A47	US- 6,670,372	12-30-2003	Charles et al.	
	A48	US- 6,677,347	01-13-2004	Crooks et al.	
	A49	US- 6,677,348	01-13-2004	Heppner et al.	
	A50	US- 6,677,349	01-13-2004	Griesgraber	
	A51	US- 6,683,088	01-27-2004	Crooks et al.	
	A52	US- 2002/0016332 A1	02-07-2002	Slade	
	A53	US- 2002/0110840 A1	08-15-2002	Tomai et al.	
	A54	US- 2003/0130299 A1	07-10-2003	Crooks et al.	
	A55	US- 2003/0133913 A1	07-17-2003	Tomai et al.	
	A56	US- 2003/0139364 A1	07-24-2003	Krieg et al.	

<b>*Examiner:</b>	<b>Date Considered:</b>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Page 3 of 4

Application Number

10/780379

Filing Date

February 17, 2004

First Named Inventor

Stephen L. Crooks

Art Unit

Examiner Name

Unknown

Attorney Case Number

54913US117

**U.S. Patent Documents**

Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
	A57	US- 2003/0161797 A1	08-28-2003	Miller et al.	
	A58	US- 2003/0199538 A1	10-23-2003	Skwierczynski et al.	
	A59	US- 2003/0232852 A1	12-18-2003	Lindstrom et al.	
	A60	US- 2004/0010007	01-15-2004	Dellaria et al.	
	A61	US- 2004/0014779	01-22-2004	Gorden et al.	

**Foreign Patent Documents**

Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-KindCode (if known)				
	B1	PCT	WO 98/48805	11-05-1998			
	B2	PCT	WO 02/36592	05-10-2002			X
	B3	PCT	WO 03/103584	12-18-2003			
	B4	JP	9-208584	08-12-1997			
	B5	JP	9-255926	03-26-1999			X
	B6	JP	11-222432	08-17-1999			X
	B7	JP	2000-247884 (abs)	09-12-2000			X
	B8	EP	0 394 026	10-24-1990			
	B9	EP	1 104 764	06-06-2001			
	B10	HU	210 051 B	01-30-1995			
	B11	HU	218 950 B	01-29-2001			

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C1	Wozniak, et al, "The Amination of 3-nitro-1, 5-naphthyridines by Liquid Ammonia/Potassium Permanganate <sup>1,2</sup> . A New and Convenient Amination Method.", <u>Journal of the Royal Netherlands Chemical Society</u> , 102, pp 511-513, December 12, 1983.
	C2	Brennan, et al, "Automated Bioassay of Interferons in Micro-test Plates", <u>Biotechniques</u> , June/July, 78, 1983.
	C3	Testerman, et al., "Cytokine Induction by the Immunomodulators Imiquimod and S-27609", <u>Journal of Leukocyte Biology</u> , Volume 58, pp. 365-372, September 1995.

\*Examiner:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A/PTO (modified)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Page 4 of 4	Application Number	10/780379
	Filing Date	February 17, 2004
	First Named Inventor	Stephen L. Crooks
	Art Unit	
	Examiner Name	Unknown
	Attorney Case Number	54913US117

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS		
Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C4	Bachman, et al, "Synthesis of Substituted Quinolylamines. Derivatives of 4-Amino-7-Chloroquinoline", <u>J. Org. Chem.</u> , 15, pp 1278-1284 (1950).
	C5	Jain, et al, "Chemical and Pharmacological Investigations of Some $\omega$ -Substituted Alkylamino-3-aminopyridines", <u>J. Med. Chem.</u> , 11, pp 87-92 (1968).
	C6	Baranov, et al., <u>Chem. Abs.</u> 85, 94362, (1976).
	C7	Berényi, et al, "Ring Transformation of Condensed Dihydro-as-triazines", <u>J. Heterocyclic Chem.</u> , 18, pp 1537-1540 (1981).
	C8	Chollet, et al, "Development of a Topically Active Imiquimod Formulation", <u>Pharmaceutical Development and Technology</u> , 4(1), pp 35-43 (1999)
	C9	Izumi, et al., "1 <i>H</i> -Imidazo[4,5- <i>c</i> ]quinoline Derivatives as Novel Potent TNF- $\alpha$ Suppressors: Synthesis and Structure-Activity Relationship of 1-, 2- and 4-Substituted 1 <i>H</i> -imidazo[4,5- <i>c</i> ]pyridines", <u>Bioorganic &amp; Medicinal Chemistry</u> , 11, pp 2541-2550 (2003)

*Examiner:	Date Considered:
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



First Named Inventor: CROOKS, STEPHEN L.

Case No.: 54913US117

Application No.: 10/780379

Title: UREA SUBSTITUTED IMIDAZOQUINOLINES

**Enclosures:**

Information Disclosure Statement, Form PTO-1449, and  
cited references.

Amount charged to Deposit Account: \$-0-

Attorney (initials): DAE/amh

Date: May 28, 2004

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

First Named Inventor: CROOKS, STEPHEN L.

Case No.: 54913US117

Application No.: 10/780379

Title: UREA SUBSTITUTED IMIDAZOQUINOLINES

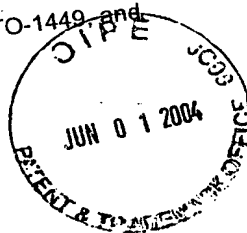
**Enclosures:**

Information Disclosure Statement, Form PTO-1449, and  
cited references.

Amount charged to Deposit Account: \$-0-

Attorney (initials): DAE/amh

Date: May 28, 2004



\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_